

CLAIM AMENDMENTS

Claim 1 (previously presented):

A woodworking machine comprising:

- a support;
- a movable blade coupled to the support;
- a control system configured to detect a dangerous condition between a person and the blade by imparting an electric signal to the blade and monitoring the electric signal for at least one change indicative of the dangerous condition;
- and
- a brake mechanism triggerable by the control system to stop movement of the blade upon detection of the dangerous condition by the control system;

where the control system is further configured to determine if the blade is moving, and configured not to trigger the brake mechanism if the blade is not moving.

Claim 2 (withdrawn):

The woodworking machine of claim 1, where the blade is coupled to the support by a rotatable arbor, and where the control system is configured to determine if the blade is moving by detecting whether the arbor is rotating.

Claim 3 (withdrawn):

The woodworking machine of claim 1, where the control system includes a magnetic sensor adapted to determine if the blade is moving.

Claim 4 (withdrawn):

The woodworking machine of claim 3, where the magnetic sensor includes a Hall effect sensor.

Claim 5 (withdrawn):

The woodworking machine of claim 1, where the control system includes an electronic sensor adapted to determine if the blade is moving.

Claim 6 (withdrawn):

The woodworking machine of claim 5, where the electronic sensor includes a capacitive sensor.

Claim 7 (withdrawn):

The woodworking machine of claim 1, where the control system includes an optical sensor adapted to determine if the blade is moving.

Claim 8 (previously presented):

A woodworking machine comprising:

a working portion adapted to work when moving;

a detection system adapted to detect a dangerous condition between a person and the working portion by imparting an electric signal to the working portion and monitoring the electric signal for at least one change indicative of the dangerous condition;

a reaction system associated with the detection system to cause a predetermined action to take place relative to the working portion upon detection of the dangerous condition; and

a motion detection system adapted to detect motion of the working portion and to disable the reaction system when the working portion is not moving.

Claim 9 (original):

The woodworking machine of claim 8, where the working portion is a spinning blade and where the motion detection system detects whether the blade is spinning.

Claim 10 (original):

The woodworking machine of claim 8, where the motion detection system detects the speed of the motion and considers the working portion to be not moving if the working portion is moving below a threshold speed.

Claim 11 (original):

The woodworking machine of claim 8, where the motion detection system includes a sensor.

Claim 12 (withdrawn):

The woodworking machine of claim 11, where the sensor is a Hall effect sensor.

Claim 13 (withdrawn):

The woodworking machine of claim 11, where the sensor is an electromagnetic field sensor.

Claim 14 (withdrawn):

The woodworking machine of claim 11, where the sensor is an optical sensor.

Claim 15 (withdrawn):

The woodworking machine of claim 11, where the sensor is an electrical sensor.

Claim 16 (original):

The woodworking machine of claim 8, where the working portion is a cutter, where the reaction system is a brake system, and where the predetermined action is to engage and stop the cutter.

Claim 17 (currently amended):

A woodworking machine comprising:

a working portion adapted to work when moving;

a motor to move the working portion;

a detection system adapted to detect a dangerous condition between a person and the working portion by imparting an electric signal to the working portion and monitoring the electric signal for at least one change indicative of the dangerous condition ~~during a defined period of time after the motor has been turned off~~; and

a reaction system associated with the detection system to cause a predetermined action to take place relative to the working portion upon detection of the dangerous condition;

where the detection system and reaction system are configured to function when the motor is moving the working portion and for a defined period of time after the motor has been turned off, and where the reaction system is configured not to cause the predetermined action to take place after the defined period of time has past until the motor starts moving the working portion.

Claim 18 (cancelled).

Claim 19 (currently amended):

A woodworking machine comprising:

a cutting tool;

a motor to spin the cutting tool;

a detection system adapted to detect a dangerous condition between a person and the cutting tool by imparting an electric signal to the cutting tool and monitoring the electric signal for at least one change indicative of the dangerous condition;

~~a brake system adapted to engage and stop the cutting tool when the detection system detects the dangerous condition between the person and the cutting tool~~ a reaction system associated with the detection system to cause a predetermined action to take place relative to the working portion upon detection of the dangerous condition; and

a control system adapted to monitor the detection system and control actuation of the ~~brake~~ reaction system, where the control system is adapted to trigger the ~~brake~~ reaction system if the dangerous condition is detected when the motor is spinning the cutting tool or during coast-down of the cutting tool after the motor is turned off and to deactivate the reaction system after coast-down.

Claim 20 (cancelled).

Claim 21 (new):

The woodworking machine of claim 19, where the reaction system is a brake system, and where the predetermined action is to engage and stop the cutting tool.

Claim 22 (new):

The woodworking machine of claim 19, where the control system is adapted to re-activate the reaction system when the motor starts spinning the cutting tool after deactivation of the reaction system.